

# *Oroville Facilities Relicensing Project*

## *California Department of Water Resources*



### **Study Plan SPW-7**

Land and Watershed Management

*Presented by*

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***Study Objective:*** Evaluate and monitor the potential effects of land and watershed management, operations, and activities on the physical, chemical, and biological integrity of project waters.

***Implementation:*** SPW-7 Task 1A identified the types of land-use management activities in the project area and potential impacts to water quality from these activities (Report, March 27, 2003).

SPW-7 Task 1B implemented monitoring of specific land-uses with the potential to introduce contaminants into project waters. Sampling commenced at selected sites in June 2003.

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***Issue:*** Purple loosestrife control with glyphosate around the Afterbay by CDPR

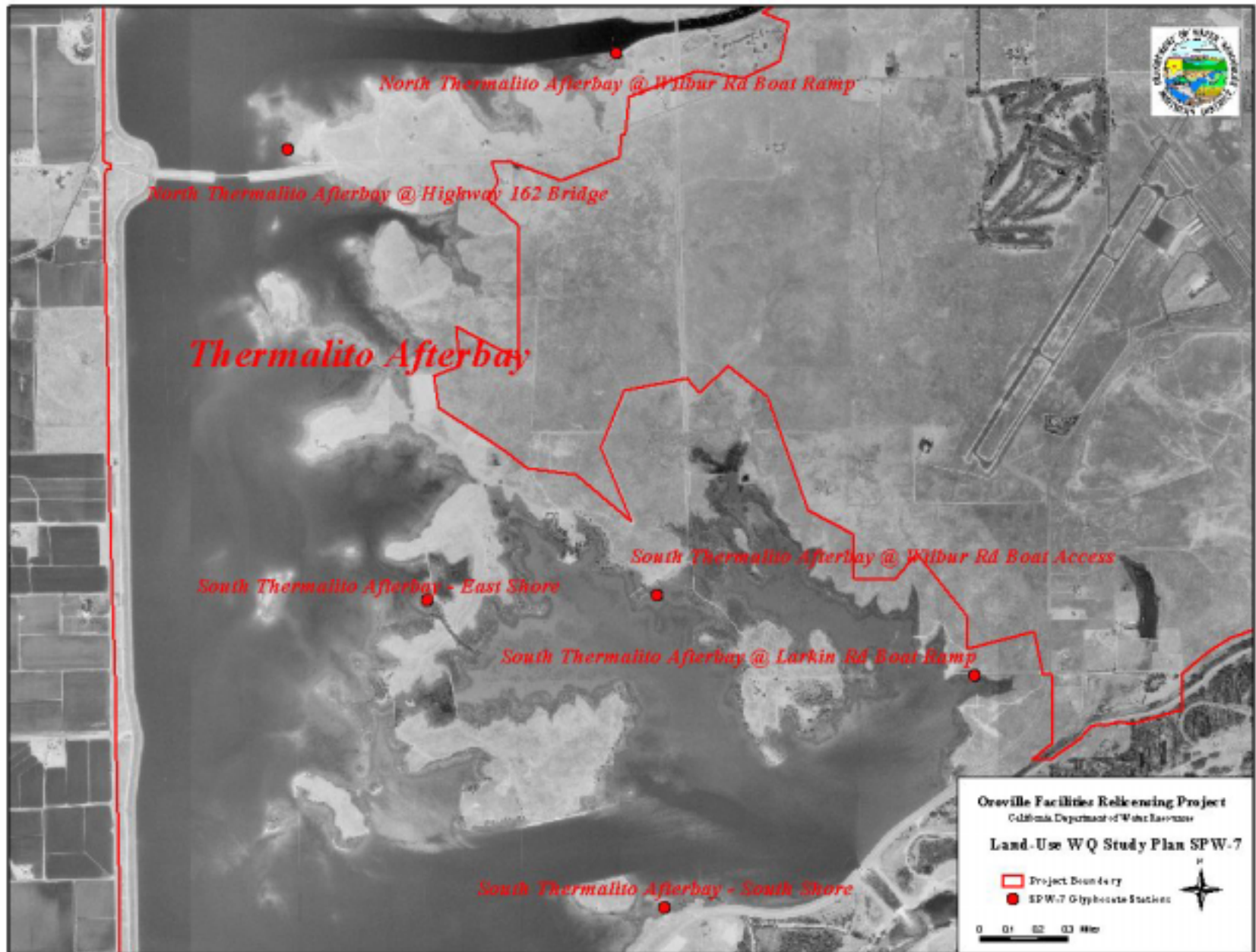
***Implementation:*** Sampling commenced at selected sites on June 26, 2003, and continued weekly until July 15, 2003.

***Issue:*** Mosquito control with methoprene and malathion within the Oroville Wildlife Area by Butte County MVCD

***Implementation:*** Monthly sampling commenced at selected ponds within the Oroville Wildlife Area

***Issue:*** Stormwater runoff of metals, organic matter, petroleum byproducts, and pesticides into project waters from the urbanized area of the city of Oroville

***Implementation:*** Sampling at four major stormwater outfalls within the City of Oroville will be performed at the first three rain events



**SPW-7 Land-Use WQ Sampling  
- Glyphosate Sampling -**

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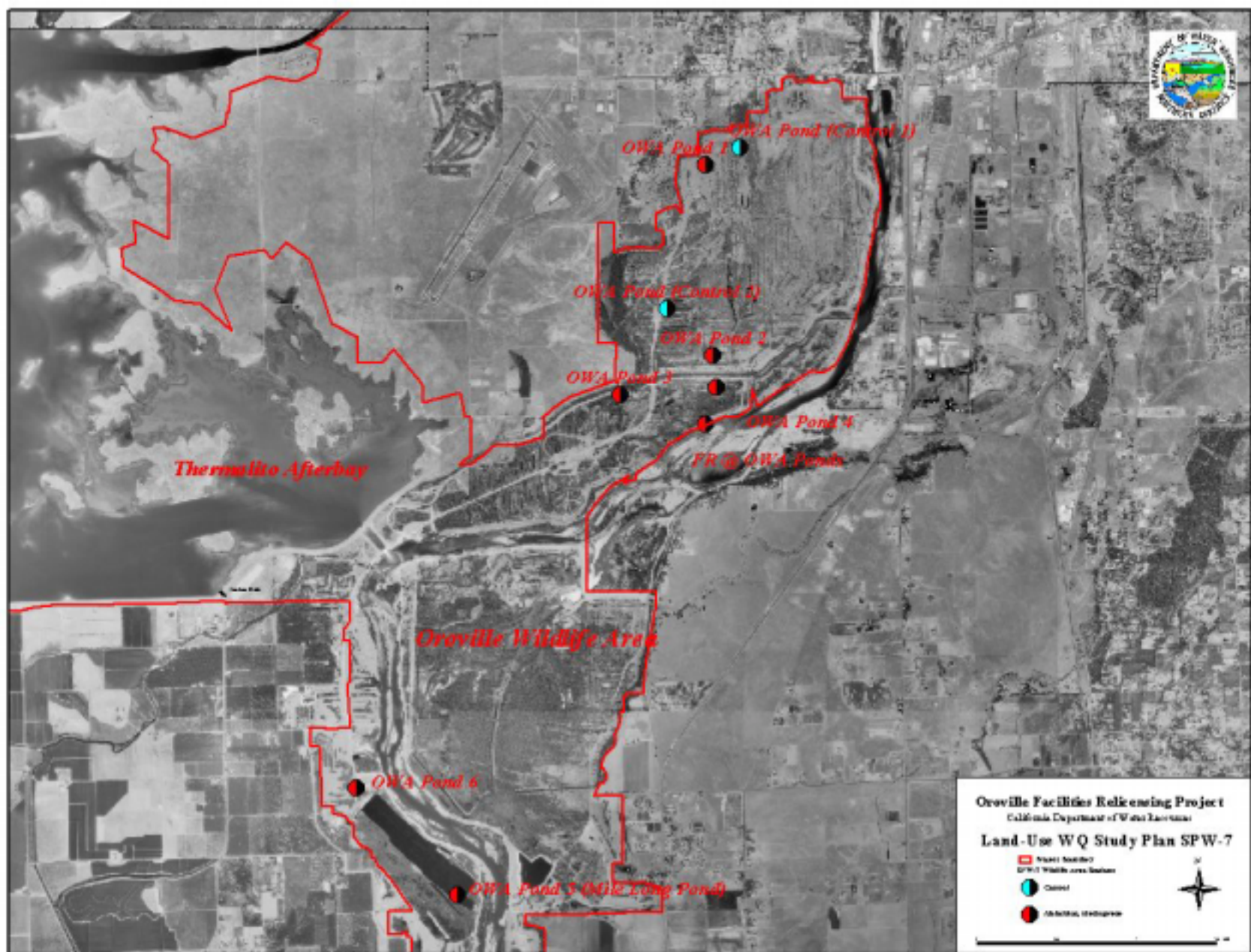
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### *Thermalito Afterbay Glyphosate Sampling (Purple Loosestrife Control)*

<u>Station</u>	<u>Date</u>	<u>Glyphosate</u>
North Afterbay ay Highway 162 Bridge	6/26/03	<25
	7/1/03	<25
	7/8/03	<25
	7/15/03	<25
North Afterbay at Wilbur Road Boat Ramp	6/26/03	<25
	7/1/03	<25
	7/8/03	<25
	7/15/03	<25
South Afterbay at Wilbur Road Boat Access	6/26/03	<25
	7/1/03	<25
	7/8/03	<25
	7/15/03	<25
South Afterbay at Larkin Road Boat Ramp	6/26/03	<25
	7/1/03	<25
	7/8/03	<25
	7/15/03	<25
South Afterbay – East Shore	6/26/03	<25
	7/1/03	<25
	7/8/03	<25
	7/15/03	<25
South Afterbay – South Shore	6/26/03	<25
	7/1/03	<25
	7/8/03	<25
	7/15/03	<25





**SPW-7 Land-Use WQ Sampling  
- Methoprene & Malathion Sampling -**

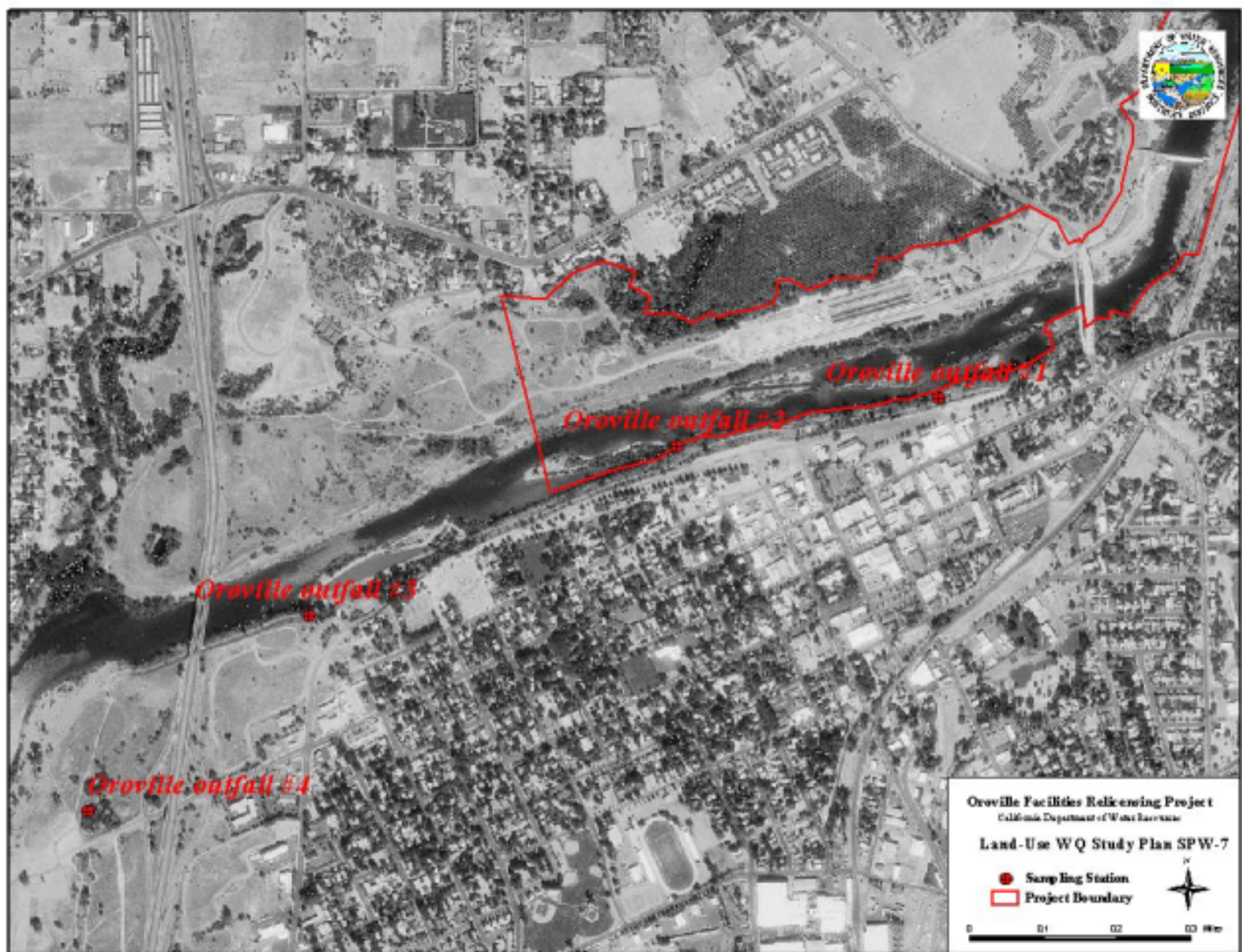
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<u>Station</u>	<u>Date</u>	<u>Malathion</u>	<u>Methoprene</u>
OWA1	5/30/03	<5	<5
	6/24/03	<5	<5
	7/30/03	<5	<5
	8/29/03	<5	<5
OWA2	5/30/03	<5	<5
	6/24/03	<5	<5
	7/30/03	<5	<5
	8/29/03	<5	<5
OWA3	5/30/03	<5	<5
	6/24/03	<5	<5
	7/30/03	<5	<5
	8/29/03	<5	<5
OWA4	5/30/03	<5	<5
	6/24/03	<5	<5
	7/30/03	<5	<5
	8/29/03	<5	<5
OWA5	5/30/03	<5	<5
	6/24/03	<5	<5
	7/30/03	<5	<5
	8/29/03	<5	<5
OWA6	5/30/03	<5	<5
	6/24/03	<5	<5
	7/30/03	<5	<5
	8/29/03	<5	<5
OWA Control 1	All Dates	<5	<5
OWA Control 2	All Dates	<5	<5





**SPW-7 Land-Use WQ Sampling  
- Urban Sampling -**